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| Model Name Using Similar Mechanism | NEW |
| :--- | :---: |
| Tape Transport Mechanism Type | MG-25F-136 |

## SPECIFICATIONS



## SECTION 6 <br> DIAGRAMS

## 6-1. IC PIN FUNCTION DESCRIPTION <br> - MAIN BOARD IC501 $\mu$ PD78058GC-F58-3B9 (SYSTEM CONTROLLER)

| Pin No. | Pin Name | I/O | Function |
| :---: | :---: | :---: | :---: |
| 1 | DSEL | I | Destination setting terminal Frequency select switch (S502) input in this set "L": MW 9k step or FM 50k step, "H": MW 10k step or FM 200k step |
| 2 | RC IN0 | I | Rotary remote commander shift key A/D input terminal |
| 3 | SD IN | I | Station detector detect input from the FM/AM tuner unit (TU1) <br> Stop level for SEEK, BTM, etc. is determined SD is present at input of "H" |
| 4 | AVSS | - | Ground terminal (for A/D converter) |
| 5 | $\overline{\text { ST }}$ | I/O | Input of FM stereo detection signal from FM/AM tuner unit (TU1), and output of forced monaural control signal to FM/AM tuner unit (TU1) (Commonly used for stereo display input and forced monaural output) <br> FM stereo detection at input of "L", forced monaural at output of "L" |
| 6 | PLLCE | O | PLL serial chip enable output to the FM/AM PLL (IC1) |
| 7 | AVREF1 | I | Reference voltage ( +5 V ) input terminal (for D/A converter) |
| 8 | PLLSI | I | PLL serial data input from the FM/AM PLL (IC1) |
| 9 | PLLSO | O | PLL serial data output to the FM/AM PLL (IC1) |
| 10 | PLLCKO | O | PLL serial data transfer clock signal output to the FM/AM PLL (IC1) |
| 11 | P-STIN | I | Polar stereo signal input terminal Not used (fixed at "H") |
| 12 | LCDSO | O | Serial data output to the liquid crystal display driver (IC901) |
| 13 | LCDCKO | O | Serial data transfer clock signal output to the liquid crystal display driver (IC901) |
| 14 | LCDCE | O | Chip enable output to the liquid crystal display driver (IC901) |
| 15 | $\overline{\text { LCDINH }}$ | O | Blank indicate control signal output to the liquid crystal display driver (IC901) "L": no display |
| 16 | UNISI | I | Serial data input from the bus interface (IC701) (for SONY bus) |
| 17 | UNISO | O | Serial data output to the bus interface (IC701) (for SONY bus) |
| 18 | UNICKI | I | Serial data reading clock signal input terminal (for SONY bus) |
| 19 | UNICKO | O | Serial data transfer clock signal output to the bus interface (IC701) (for SONY bus) |
| 20 | BUSON | O | Bus on/off control signal output to the bus interface (IC701) (for SONY bus) "L": bus on |
| 21 | SYSRST | O | Reset signal output to the bus interface (IC701) (for SONY bus) "L": reset |
| 22 | AMPON | O | Standby control signal output to the power amplifier (IC611) "L": standby |
| 23 | AMP MUT | O | Muting control signal output to the power amplifier (IC611) "L": muting on |
| 24 | TUNON | O | Tuner system power supply on/off control signal output to the BA3918 (IC671) "H": tuner on |
| 25 | FM ON | O | FM system power supply on/off control signal output to the BA3918 (IC671) "H": FM on |
| 26 | PW ON | O | Main system power supply on/off control signal output to the BA3918 (IC671) "H": power on |
| 27 | COLOR | I | Input terminal to set whether the illumination color change function is present or not "L": illumination color change function is present (fixed at "L" in this set) |
| 28 | $\overline{\text { AMSON }}$ | O | Tape auto music sensor control signal output to the CXA2510AQ (IC301) "L" is output to lower the gain for audio level at FF/REW |
| 29 | REL | I | Reel table rotation detect signal input from the take-up and supply reel sensor |
| 30 | MTLIN | I | Input terminal to set whether the auto metal function is present or not <br> "L": auto metal function is present Not used this function in this set (fixed at "H") |
| 31 | POS3 | I |  |
| 32 | POS2 | I | Tape position detect input from the tape operation swith on the mechanism block |
| 33 | GND | - | Ground terminal |
| 34 | POS0 | I |  |
| 35 | POS1 | I | Tape position detect input from the tape operation switch on the mechanism block |
| 36 | LM LOD | O | Loading/tape operation motor control signal output to the LB1638M (IC361) (For the loading direction and forward side operation) *1 |


| Pin No. | Pin Name | I/O |  |
| :---: | :---: | :---: | :--- |
| 37 | LM EJ | O | Loading/tape operation motor control signal output to the LB1638M (IC361) <br> (For the eject direction and reverse side operation) *1 |
| 38 | $\overline{\text { N/R OUT }}$ | O | Forward/reverse direction control signal output to the CXA2510AQ (IC301) <br> "L: forward direction, "H": reverse direction |
| 39 | P.ON | O | Polar stereo detection signal output terminal "H": polar stereo Not used (open) |
| 40 | CM ON | O | Capstan/reel motor (M901) drive signal output terminal "H": motor on |
| 41 | TAPEON | O | Tape system power supply on/off control signal output terminal "H": tape on |
| 42 | COLSEL | I | Setting terminal for the illumination color "L": amber, "H": green (fixed at "H") |


| Pin No. | Pin Name | I/O | Function |
| :---: | :---: | :---: | :--- |
| 67 | KEYACK | I | Input of acknowledge signal for the key entry Acknowledge signal is input to accept function <br> and eject keys in the power off status On at input of "H" |
| 68 | VDD | - | Power supply terminal (+5V) |
| 69 | X OUT | O | Main system clock output terminal (5 MHz) |
| 70 | X IN | I | Main system clock input terminal (5 MHz) |
| 71 | GND | - | Ground terminal |
| 72 | XT OUT | O | Sub system clock output terminal (32.768 kHz) |
| 73 | XT IN | I | Sub system clock input terminal (32.768 kHz) |
| 74 | AVDD | - | Power supply terminal (+5V) (for A/D converter) |
| 75 | AVREF0 | I | Reference voltage input terminal (+5V) (for A/D converter) |
| 76 | KEYIN0 | I | Key input terminal (A/D input) <br> OFF, SOURCE, MODE <IP, SEEK AMS + <br> SEL, VOLUME +, DSPL, ATT keys input (LSW901 to LSW910) |
| 77 | KEYIN1 | I | Key input terminal (A/D input) <br> A, INTRO 1, REPEAT 2, SHUF/DO 3, BL SKIP 6, ATA 5, BANK/MTL 4, BTM LCL, FILE, <br> PRESET DISC +/- keys input (LSW921 to LSW931) |
| 78 | D-BASS | I | D-BASS switch (SW951) input (A/D input) VOLUME -, |
| 79 | VSM | I | FM and AM signal meter voltage detection input from the FM/AM tuner unit (TU1) |
| 80 | KEYSEL | I | Setting terminal for the key (fixed at "L") |

*1 loading/tape operation motor control

| TERMINAL | STOP | LOADING/ <br> FORWARD | EJECT/ <br> REVERSE | BRAKE |
| :---: | :---: | :---: | :---: | :---: |
| LM LOD (pin (36) | "L" | "H" | "L" | $" H "$ |
| LM EJ (pin (37) | "L" | "L" | "H" | "H" |

## XR-C6100

6-4. SCHEMATIC DIAGRAM - MAIN Section (1/2) - • See page 31 and 32 for IC Block Diagrams.


6-5. SCHEMATIC DIAGRAM - MAIN Section (2/2) - • See page 32 for IC Block Diagramas.


## 6-7. SCHEMATIC DIAGRAM - PANEL Section -



## IC1 BU2624F-E2



IC161 LC75373ED


IC301 CXA2510AQ-T4


IC361 LB1638M


IC611 TDA7384


IC671 BA3918-V2


IC701 BA8270F-E2


